

AMENDMENTS TO THE CLAIMS

Claims 1-7. (Cancelled)

8. (Currently Amended) ~~The method for treating sewage in the combined sewer system according to claim 3,~~ A method for treating sewage in a combined sewer system where wastewater and rainwater collected flow together as sewage, comprising a step of treating the sewage with an electrochemically produced hypohalogenous acid, ozone or activated oxygen,  
wherein the sewage is treated with a hypohalogenous acid, ozone or activated oxygen electrochemically produced therein, and

wherein the sewage is treated with a hypohalogenous acid, ozone or activated oxygen electrochemically produced therein at a pump station which pumps up the sewage flowing downward from the upstream of the sewer system up to the vicinity of the earth surface by a pump.

9. (Currently Amended) ~~The method for treating sewage in the combined sewer system according to claim 3,~~ A method for treating sewage in a combined sewer system where wastewater and rainwater collected flow together as sewage, comprising a step of treating the sewage with an electrochemically produced hypohalogenous acid, ozone or activated oxygen,  
wherein the sewage is treated with a hypohalogenous acid, ozone or activated oxygen electrochemically produced therein, and

wherein the sewage is treated with a hypohalogenous acid, ozone or activated oxygen electrochemically produced therein at an overflow water passage provided in the sewer system to

directly discharge the sewage as the combined sewer overflow flowing under an abnormal condition into a river, sea or the like, when the water level rises abnormally.

10. (Currently Amended) The method for treating sewage in the combined sewer system according to ~~1 or 2~~ claims 8 or 9, wherein a halide or halide ion is added thereto for the electrochemical treatment.

11. (Currently Amended) The method for treating sewage in the combined sewer system according to ~~1 or 2~~ claims 8 or 9, wherein seawater is added thereto in the electrochemical treatment.

12. (Currently Amended) The method for treating sewage in the combined sewer system according to ~~1 or 2~~ claims 8 or 9, wherein the sewage is adjusted at a pH of 7 or less.

Claims 13-22. (Cancelled)

23. (Currently Amended) ~~The sewage treatment system in the combined sewer system according to claim 15,~~ A sewage treatment system in a combined sewer system where wastewater and rainwater collected flow together as sewage, comprising a treating means which electrochemically produces a hypohalogenous acid, ozone or activated oxygen with which the sewage is treated,

wherein the treating means electrochemically treats the sewage to produce a hypohalogenous acid, ozone or activated oxygen therein, and

wherein the treating means also electrochemically treats the sewage to produce a hypohalogenous acid, ozone or activated oxygen therein at a pump station which pumps up the sewage flowing downward from the upstream of the sewer system up to the vicinity of the earth surface by a pump.

24. (Currently Amended) ~~The sewage treatment system in the combined sewer system according to claim 15,~~ A sewage treatment system in a combined sewer system where wastewater and rainwater collected flow together as sewage, comprising a treating means which electrochemically produces a hypohalogenous acid, ozone or activated oxygen with which the sewage is treated,

wherein the treating means electrochemically treats the sewage to produce a hypohalogenous acid, ozone or activated oxygen therein, and

wherein the treating means electrochemically treats the sewage to produce a hypohalogenous acid, ozone or activated oxygen therein at an overflow water passage provided in the sewer system to directly discharge the sewage as the combined sewer overflow flowing under an abnormal condition into a river, sea or the like, when the water level rises abnormally.

25. (Cancelled)

26. (Currently Amended) The sewage treatment system in the combined sewer system according to ~~claim 15~~ claims 23 or 24, wherein the treating means is provided with means for adding seawater to the electrochemically treated sewage.

27. (Currently Amended) The sewage treatment system in the combined sewer system according to ~~claim 15~~ claims 23 or 24, wherein the treating means is provided with pH-adjusting means for adjusting the electrochemically treated water at a pH of 7 or less.

28. (Currently Amended) The sewage treatment system in the combined sewer system according to ~~claim 15~~ claims 23 or 24, wherein the treating means is provided with electrodes for electrolysis, the electrodes being of bi-polar type.

29. (Currently Amended) The sewage treatment system in the combined sewer system according to ~~claim 15~~ claims 23 or 24, wherein the treating means is provided with electrodes for electrolysis, each electrode being composed of a noble metal or conductor coated with the noble metal, carbon-based conductor or conductor coated with the carbon-based conductor, ceramic-based conductor or conductor coated with the ceramic-based conductor, or iron-based alloy or conductor coated with the iron-based alloy.

30. (Currently Amended) The sewage treatment system in the combined sewer system according to ~~claim 15~~ claims 23 or 24, wherein the treating means is provided with a discharged water quantity sensor which senses a quantity of the sewage discharged from the discharge port at an overflow water passage provided in the sewer system to directly discharge the sewage as the combined sewer overflow flowing under an abnormal condition into a river, sea or the like, when the water level rises abnormally;

a water quality sensor which senses quality of the sewage discharged from the discharge port;

electrodes for electrolysis; and

a controller which controls current or/and voltage for electrolysis to be applied to the electrodes for electrolysis, based on externally supplied rainfall data, discharged quantity data read by the discharged water quantity sensor and water quality data read by the water quality sensor.

31. (Original) The sewage treatment system in the combined sewer system according to claim 30, wherein the sewer system is composed of two or more lines,

each sewer system line being provided with a discharged water quantity sensor, water quality sensor and electrodes for electrolysis; and

the controller is also provided to control current or/and voltage for electrolysis to be applied to the electrodes for electrolysis, based on externally supplied rainfall data, discharged quantity data read by each discharged water quantity sensor and water quality data read by each water quality sensor.

32. (Previously Presented) The sewage treatment system in the combined sewer system according to claim 31, wherein the controller transmits data from a portable terminal to a server, which treats the data by comparing them with meteorological data, and transmits necessary control signals selected from the past and present data and anticipated weather condition changes back to the portable terminal, to control current or/and voltage for electrolysis to be applied to the electrodes for electrolysis.

33. (New) A method for treating sewage in a combined sewer system where wastewater and rainwater collected flow together as sewage, comprising a step of treating the sewage with an electrochemically produced hypohalogenous acid, ozone or activated oxygen,

wherein electrolytic water containing an electrochemically produced hypohalogenous acid, ozone or activated oxygen is mixed with the sewage,

wherein the sewage is treated with a hypohalogenous acid, ozone or activated oxygen electrochemically produced therein, and

wherein the sewage is treated with a hypohalogenous acid, ozone or activated oxygen electrochemically produced therein at an overflow water passage provided in the sewer system to directly discharge the sewage as the combined sewer overflow flowing under an abnormal condition into a river, sea or the like, when the water level rises abnormally.

34. (New) A method for treating sewage in a combined sewer system where wastewater and rainwater collected flow together as sewage, comprising a step of treating the sewage with an electrochemically produced hypohalogenous acid, ozone or activated oxygen,

wherein electrolytic water containing an electrochemically produced hypohalogenous acid, ozone or activated oxygen is mixed with the sewage,

wherein the sewage is treated with a hypohalogenous acid, ozone or activated oxygen electrochemically produced therein, and

wherein the sewage is treated with a hypohalogenous acid, ozone or activated oxygen electrochemically produced therein at an overflow water passage provided in the sewer system to directly discharge the sewage as the combined sewer overflow flowing under an abnormal condition into a river, sea or the like, when the water level rises abnormally.

35. (New) A sewage treatment system in a combined sewer system where wastewater and rainwater collected flow together as sewage, comprising a treating means which electrochemically produces a hypohalogenous acid, ozone or activated oxygen with which the sewage is treated,

wherein the treating means is provided with means for adding a halide or halide ion to the electrochemically treated sewage,

wherein the treating means electrochemically treats the sewage to produce a hypohalogenous acid, ozone or activated oxygen therein, and

wherein the treating means also electrochemically treats the sewage to produce a hypohalogenous acid, ozone or activated oxygen therein at a pump station which pumps up the sewage flowing downward from the upstream of the sewer system up to the vicinity of the earth surface by a pump.

36. (New) A sewage treatment system in a combined sewer system where wastewater and rainwater collected flow together as sewage, comprising a treating means which electrochemically produces a hypohalogenous acid, ozone or activated oxygen with which the sewage is treated,

wherein the treating means is provided with means for adding a halide or halide ion to the electrochemically treated sewage,

wherein the treating means electrochemically treats the sewage to produce a hypohalogenous acid, ozone or activated oxygen therein, and

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wherein the treating means electrochemically treats the sewage to produce a hypohalogenous acid, ozone or activated oxygen therein at an overflow water passage provided in the sewer system to directly discharge the sewage as the combined sewer overflow flowing under an abnormal condition into a river, sea or the like, when the water level rises abnormally.